

Fig. 1 PRIOR ART

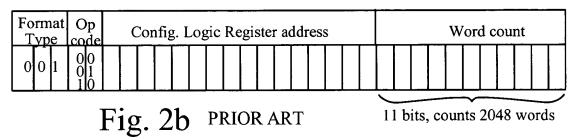
Header A
Data A
Header B
Data 1B
Data 2B
Data 3B
Data 4B
Header C
Data 1C
•

Bitstream header Config. Logic Reg. address	Config. Logic Register data contents
0000	Cyclic Redundancy Check (CRC)
0001	Frame Address
0010	Frame Data Input
0011	Frame Data Output
0100	Command
0110	Control
0111	Status
1000	Daisy Chain Output
1001	Configuration Option
1010	Reserved
1011	Frame Length
1100	Reserved
1101	Reserved
1110	Reserved
1111	Reserved

Fig. 2a PRIOR ART

Fig. 2d PRIOR ART

32-bit Command Header Format 1



32-bit Command Header Format 1

					JZ-0	DIL	\sim	1111	1141	iiu	111	Juu	V1 .		1111	uı	1									
Format Type	Op code	Config. Logic Register Address										W	oro	1 C	Cou	ınt										
0 0 1	$\begin{array}{c} 00\\01\\10\end{array}$															0	0	0	0	0	0	0	0	0	0	0
		-														<u></u>	_		_		~	_		_	_	$\overline{}$
32-bit Command Header Format 2																										
Format	Op											W	ore	1 ('ou	nt										

Format Op Type code	Word Count	
0 1 0 00 01 10		

Fig. 2c PRIOR ART

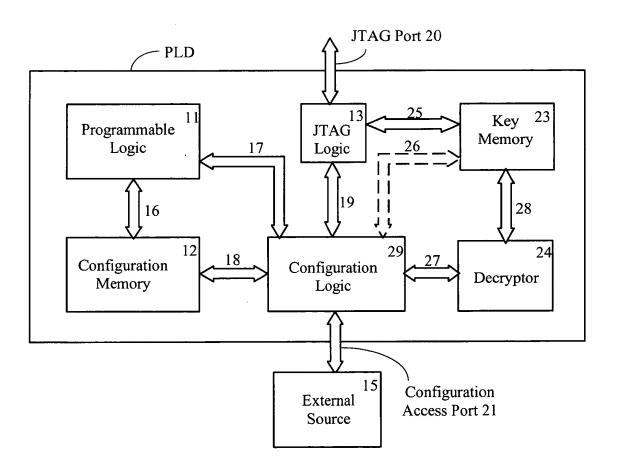


Fig. 3

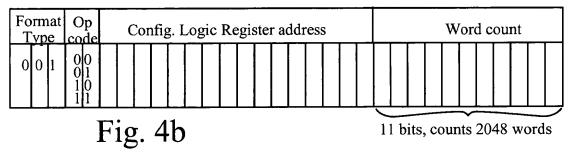
Header A Data A
Header B Data B
Header C Data C
Header D Data 1D Data 2D Data 3D

Bitstream header Config. Logic Reg. address	Config. Logic Register data contents
address	
0000	Cyclic Redundancy Check (CRC)
0001	Frame Address
0010	Frame Data Input
0011	Frame Data Output
0100	Command
0110	Control
0111	Status
1000	Daisy Chain Output
1001	Configuration Option
1010	Reserved
1011	Frame Length
1100	Cipher block chaining(CBC) starter
1101	Initial key address
1110	Reserved
1111	Reserved

Fig. 4a

Fig. 4d

32-bit Command Header Format 1



32-bit Command Header Format 1

Format Op Type code	Config. Logic Register Address	Word Count
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		

32-bit Command Header Format 2

Format Op Type code	Word Count
$\begin{array}{c cccc} 0 & 1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 1 & 1 & 0 \\ & & & & 1 & 1 & 1 & 1 \end{array}$	

Fig. 4c

27 bits, counts 2.68 million words or 10 megabytes

UNENCRYPTED VERSION

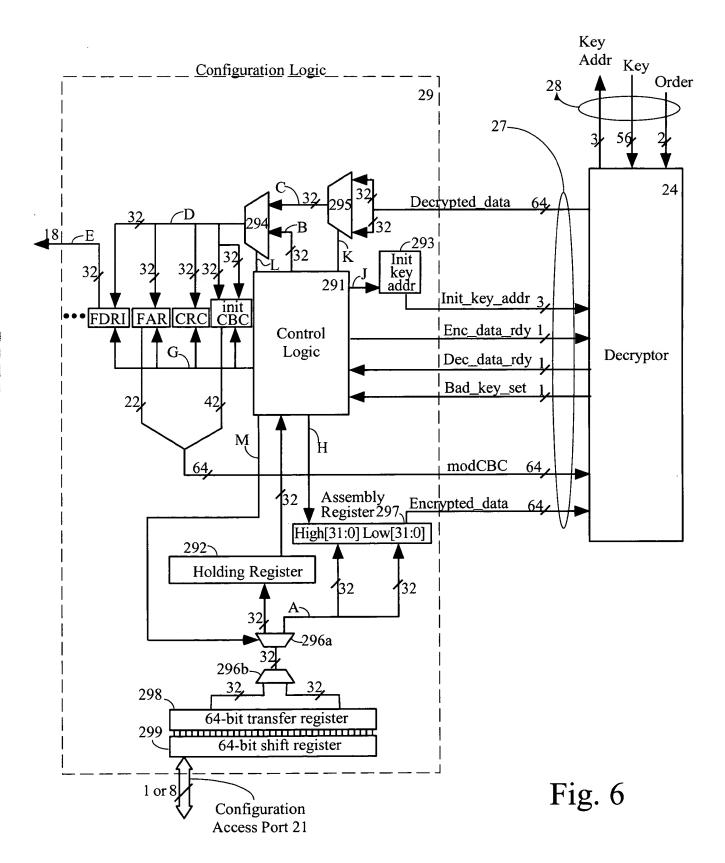
Sync word 10101010100110010101010101100110 Type 1 write 1 words to CMD 0011000000000000100000000000001 RCRC command 0000000000000000000000000000111 Type 1 write 1 words to FLR 001100000000001011000000000001 data word 0 00000000000000000000000000011001 Type 1 write 1 words to COR 001100000000001001000000000001 data word 0 000000000000011111111111000001 Type 1 write 1 words to ID 001100000000001110000000000001 data word 0 0000000100000001000000010010011 Type 1 write 1 words to MASK 001100000000000110000000000001 Type 1 write 1 words to CMD 0011000000000000100000000000001 Type 2 write 10530 words to FDRI 010100000000000001010010010010 data word 3 00001000000000111111111111111100

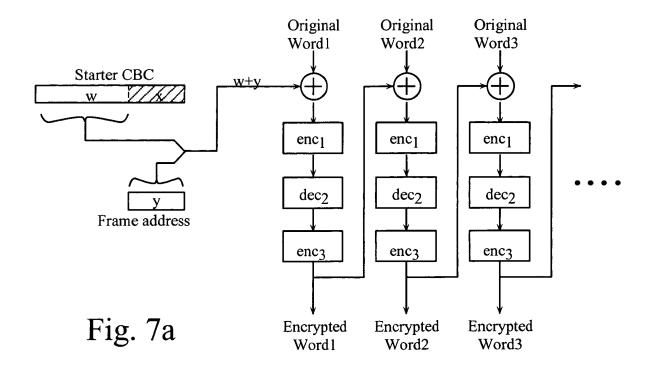
Fig. 5a

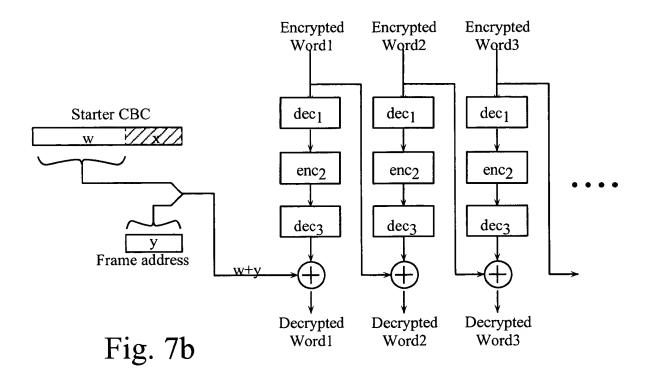
ENCRYPTED VERSION

```
Sync word 101010101010010101010101010110
 RCRC command 0000000000000000000000000000111
 Type 1 write 1 words to FLR 001100000000001011000000000001
           data word 0 0000000000000000000000000011001
 Type 1 write 1 words to COR 0011000000000010010000000000001
           data word 0 000000000000100001111111111000001
                  0011000000000011100000000000001
 Type 1 write 1 words to ID
           data word 0 0000000100000001000000010010011
 Type 1 write 1 words to MASK 001100000000000110000000000001
           Type 1 write 1 words to FAR 001100000000000001000000000001
           Type 1 write 1 word to KEY ADDR 00110000000001100000000000001
           data word 0 10010000101010111100110111101111
           data word 1 0001001000110100010101110001
Type 2 dec 10530 words to FDRI 010110000000000001010010010010
           data word 0 0001010111011011001100101001000
           data word 1 111000001110001101111111101100111
           data word 2 10101010011111011110001100110011
           data word 3 01100001101011100001011010110100
         data word 10526 010110011011111011000101010101010
         data word 10527 0010100101111111101011110110000
         data word 10528 11000000001010100110011000101010
         data word 10529 01111111110010000001100011100010
          Auto CRC word 0000000000000000101111011001010
 Type 1 write 1 words to CMD 0011000000000001000000000000001
           Type 1 write 1 words to COR 001100000000001001000000000001
           data word 0 000000000000011111111111000001
 Type 1 write 1 words to CMD 001100000000000100000000000001
          Type 1 write 1 words to CTL
                  0011000000000000101000000000001
           Type 1 write 1 words to CRC
                   data word 0 000000000000000000101111001111
 DESYNCH command 000000000000000000000000001101
```

Fig. 5b







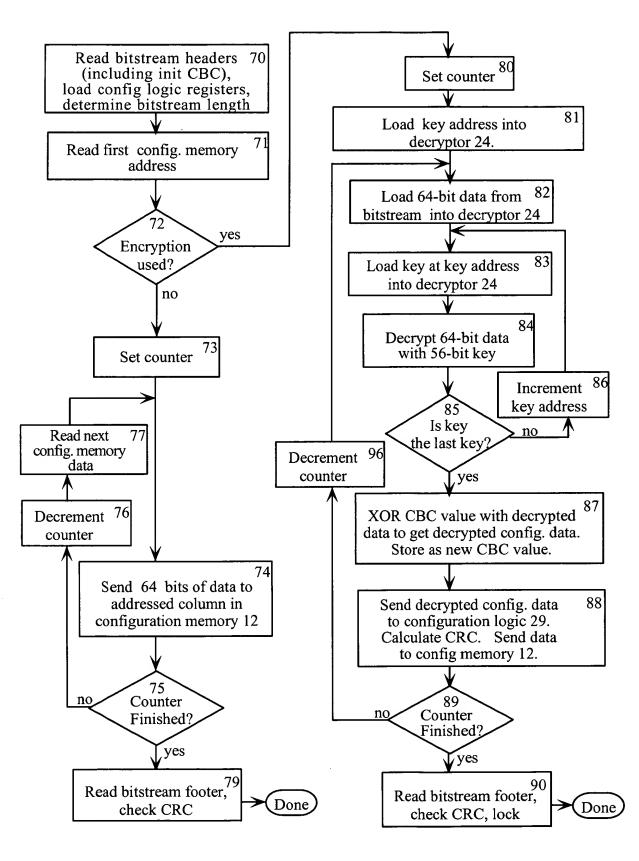


Fig. 8

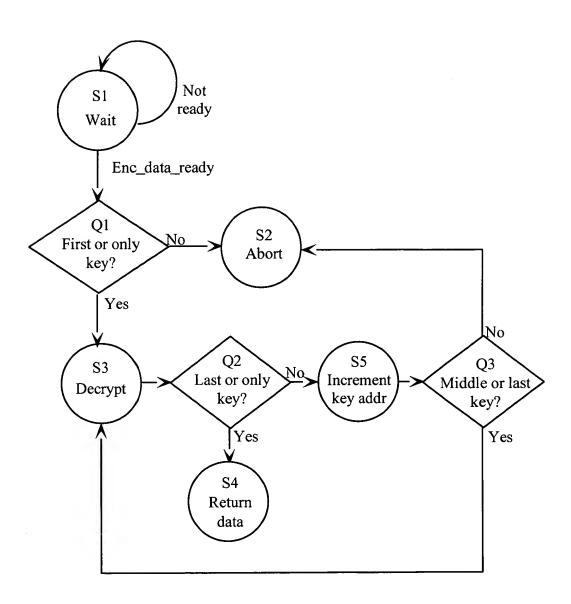
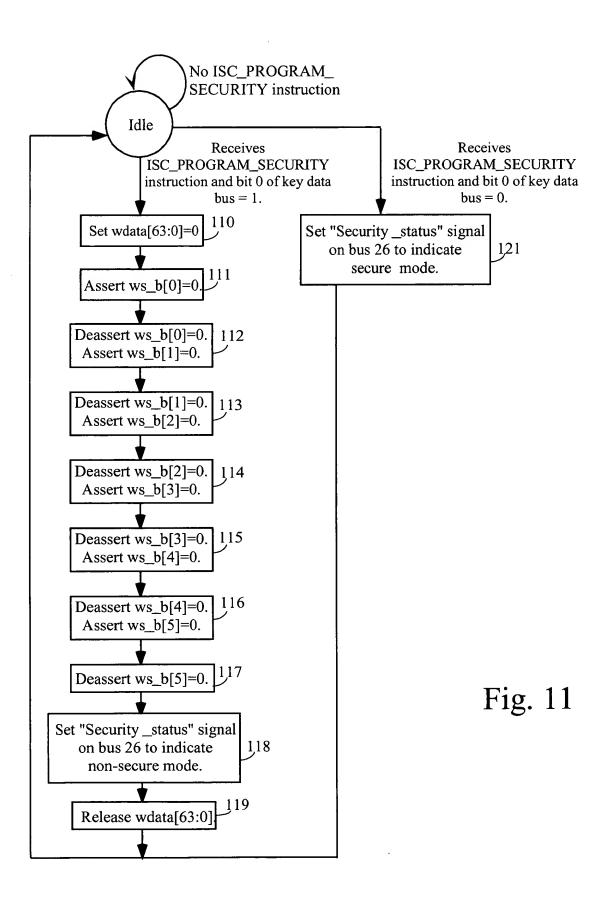


Fig. 9



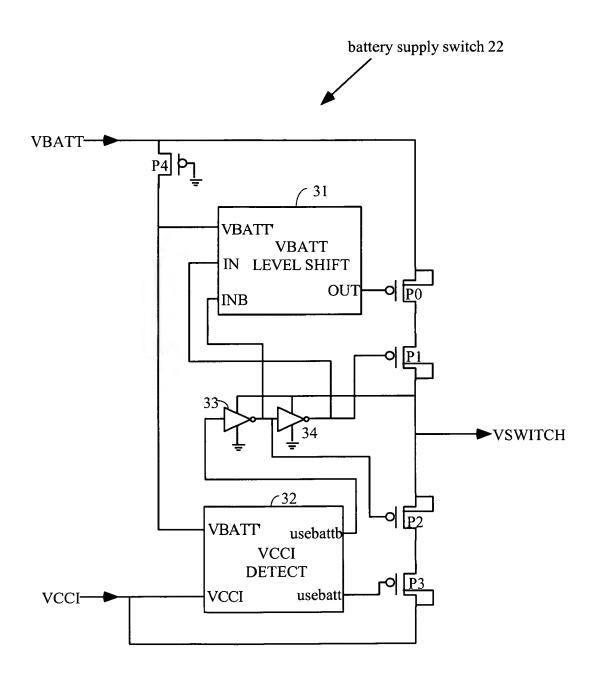
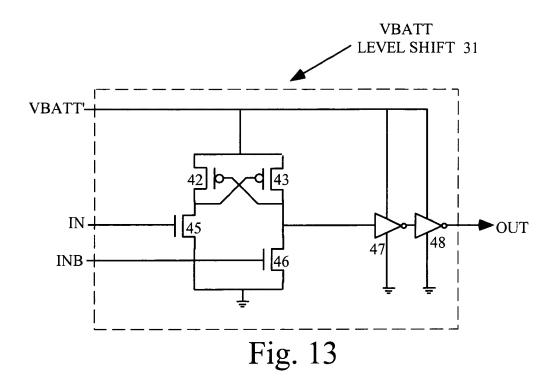
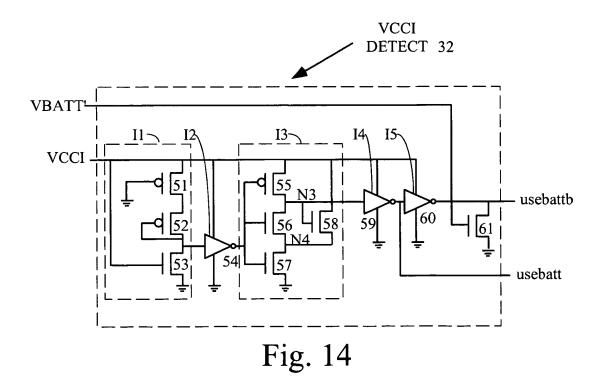


Fig. 12





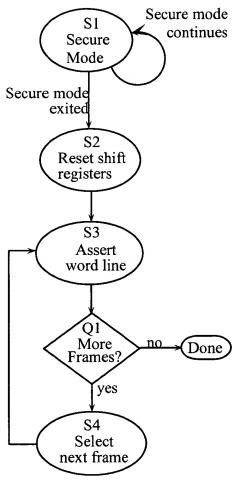


Fig. 15

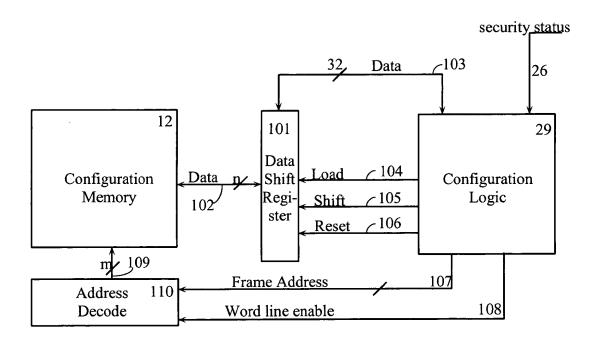


Fig. 16